

Abstract of the Disclosure

5 A vibration-isolation system for assembly of a motorcycle frame with an  
engine/transmission unit has a first pivotal mount at a rear portion of the frame  
and engine/transmission unit, the first mount comprising all rigid bearing  
components mounted to solid elements of both the frame and the  
engine/transmission unit, the first mount thereby allowing the engine/transmission  
unit to rotate around the first mount in substantially a vertical plane of the frame,  
10 but allowing no pivotal movement in any other plane or any translation movement  
in any direction relative to the frame; and a second mount at a front portion of the  
frame and engine/transmission unit, the second mount incorporating one or more  
elastomeric elements between a solid interface to the frame and a solid interface to  
the engine/transmission unit, thereby allowing substantially vertical translation of  
15 the engine transmission unit relative to the frame at the second mount, the  
translation of an amplitude limited by the elastomeric elements, and thereby  
limiting the rotation of the engine/transmission unit around the first pivotal  
mount.